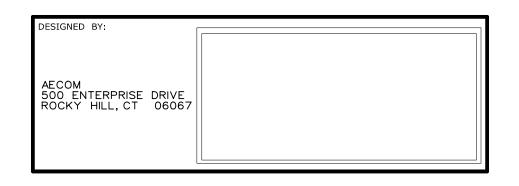
06 - RETAINING WALL 105 INDEX OF DRAWINGS

DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
RETAINING WALL 105 / PLAN AND ELEVATION - 1		
RETAINING WALL 105 / PLAN AND ELEVATION - 2		
RETAINING WALL 105 / LAYOUT PLAN		
RETAINING WALL 105 / WALL DETAILS - 1		
RETAINING WALL 105 / WALL DETAILS - 2		
RETAINING WALL 105 / WALL DETAILS - 3		
RETAINING WALL 105 / WALL DETAILS - 4		
RETAINING WALL 105 / WALL DETAILS - 5		
RETAINING WALL 105 / WALL DETAILS - 6		
RETAINING WALL 105 / CONSTRUCTION SEQUENCE		
	RETAINING WALL 105 / PLAN AND ELEVATION - 1 RETAINING WALL 105 / PLAN AND ELEVATION - 2 RETAINING WALL 105 / LAYOUT PLAN RETAINING WALL 105 / WALL DETAILS - 1 RETAINING WALL 105 / WALL DETAILS - 2 RETAINING WALL 105 / WALL DETAILS - 3 RETAINING WALL 105 / WALL DETAILS - 4 RETAINING WALL 105 / WALL DETAILS - 5 RETAINING WALL 105 / WALL DETAILS - 6	RETAINING WALL 105 / PLAN AND ELEVATION - 1 RETAINING WALL 105 / PLAN AND ELEVATION - 2 RETAINING WALL 105 / LAYOUT PLAN RETAINING WALL 105 / WALL DETAILS - 1 RETAINING WALL 105 / WALL DETAILS - 2 RETAINING WALL 105 / WALL DETAILS - 3 RETAINING WALL 105 / WALL DETAILS - 4 RETAINING WALL 105 / WALL DETAILS - 5 RETAINING WALL 105 / WALL DETAILS - 6



FINAL PLANS FOR REVIEW

-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED
-	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE
_	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.
-	-	-	-	
=\/	DATE	DEVISION DESCRIPTION	SHEET NO	Plotted Date: 3/28/2016

ER/DRAFTER:

K. BARKER

D BY:

J. IVES

DEP

STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_0135_0301_TSH-V1-S06.dgn

BLOCK:

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2 STAMFORD

DRAWING TITLE:

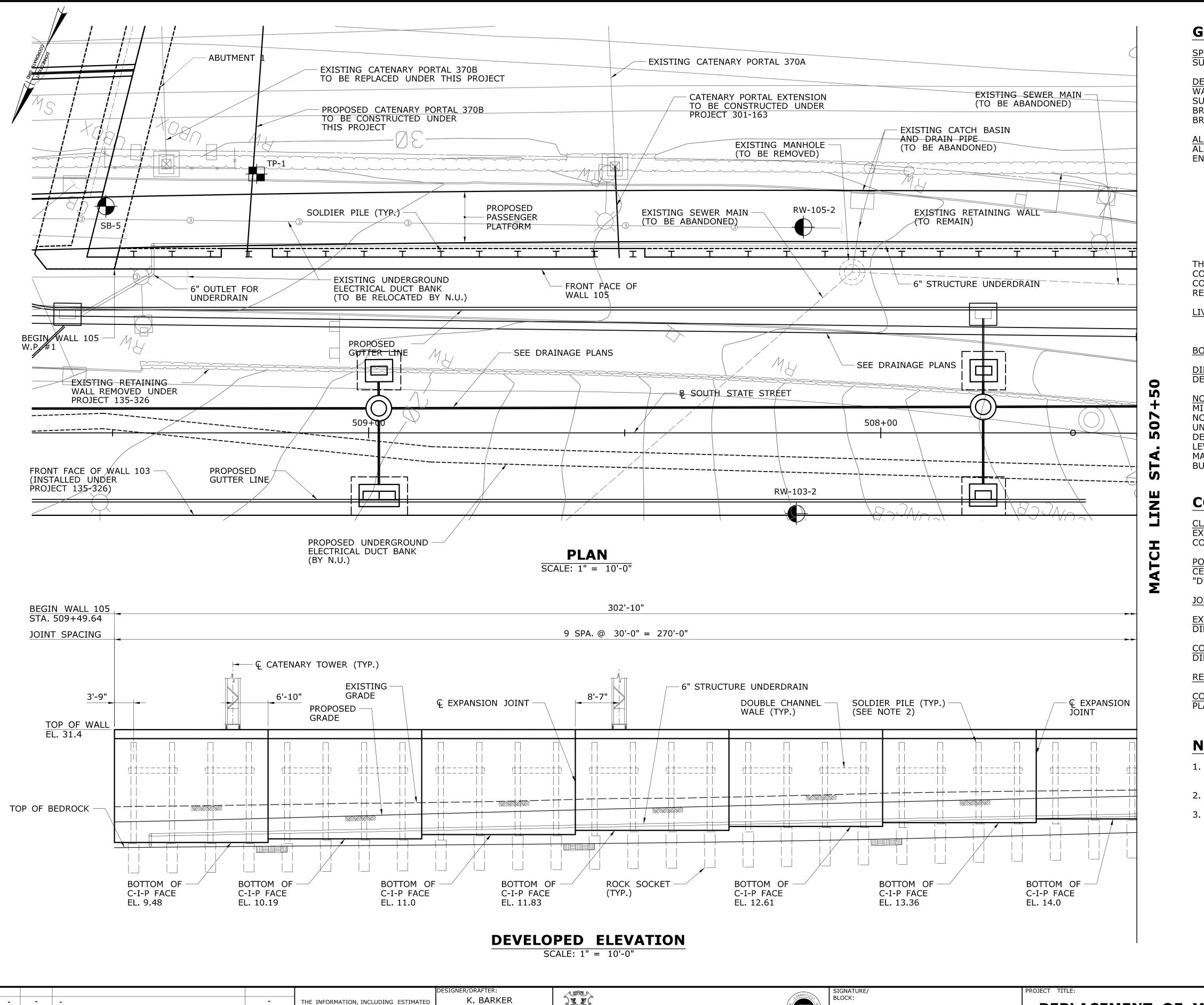
STAMFORD

WING TITLE:

RETAINING WALL 105
INDEX OF DRAWINGS

O1.06.000

135-301



STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br08012R_0135_0301_W105-1.dgn

QUANTITIES OF WORK, SHOWN ON THESE CHECKED B

J. IVES

SCALE AS NOTED

SHEETS IS BASED ON LIMITED

SHEET NO. Plotted Date: 3/28/2016

INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE

THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

GENERAL NOTES

<u>SPECIFICATIONS:</u> CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS DATED JULY 2015 AND SPECIAL PROVISIONS.

<u>DESIGN SPECIFICATIONS:</u> AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION (AREMA) MANUAL FOR RAILWAY ENGINEERING (2014), AS SUPPLEMENTED BY THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (2002) AND BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003).

ALLOWABLE DESIGN STRESSES:

ALLOWABLE STRESSES SHALL CONFORM TO THE AREMA MANUAL FOR RAILWAY ENGINEERING AND SHALL BE BASED ON THE FOLLOWING MATERIAL PROPERTIES: CONCRETE:

CLASS "A" CONCRETE
CLASS "F" CONCRETE
PORTLAND CEMENT CONCRETE
FOR DRILLED SHAFTS
REINFORCEMENT:
ASTM A615 GRADE 60

BASED ON f'c = 3000 PSI

STRUCTURAL STEEL AND PILES:

AASHTO M270, GRADE 50

BASED ON Fy = 50,000 PSI

THE SPECIFIED CONCRETE STRENGTH USED IN DESIGN, f'c, OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF "SECTION 6.01 CONCRETE FOR STRUCTURES."

LIVE LOAD:

RAILROAD:

PASSENGER PLATFORM:

COOPER E-80
150 PSF

BORING LOGS: FOR BORING LOGS, SEE SUBSET 9.

<u>DIMENSIONS:</u> WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

NOISE POLLUTION: THE CONTRACTOR SHALL EMPLOY ALL POSSIBLE METHODS TO MINIMIZE NOISE POLLUTION CAUSED BY CONSTRUCTION EQUIPMENT, INCLUDING BUT NOT LIMITED TO EQUIPMENT USED FOR DRILLING, EXCAVATING AND HAULING. ALL UNITS SHALL BE MUFFLED SO AS TO REDUCE NOISE TO AN ACCEPTABLE LEVEL AS DEFINED HEREIN. ALL METHODS AND DEVICES EMPLOYED TO MINIMIZE NOISE LEVELS SHALL BE SUBJECT TO THE CONTINUING APPROVAL OF THE ENGINEER. THE MAXIMUM ALLOWABLE LEVEL OF NOISE AT THE NEAREST RESIDENCE OR OCCUPIED BUILDING SHALL BE 90 DECIBELS ON THE "A" WEIGHTED SCALE.

CONCRETE NOTES

<u>CLASS "A" CONCRETE:</u> CLASS "A" CONCRETE SHALL BE USED THROUGHOUT WITH THE EXCEPTION OF THE CLASS "F" CONCRETE USED IN THE PRECAST LAGGING AND THE CONCRETE USED IN THE DRILLED SHAFTS.

PORTLAND CEMENT CONCRETE FOR DRILLED SHAFTS: THE COST OF PORTLAND CEMENT CONCRETE FOR DRILLED SHAFTS SHALL BE PAID FOR UNDER THE ITEM "DRILLED SHAFT (2.0' DIAMETER)."

JOINT SEAL: SEE SPECIAL PROVISIONS.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

NOTES

- ALL DIMENSIONS ARE MEASURED ALONG THE FRONT FACE OF WALL. SEE WALL DETAILS FOR REFERENCE LINE.
- 2. SOLDIER PILES SHALL BE SPACED AT 7'-6" UNLESS OTHERWISE NOTED.
- 3. ALL JOINTS ARE CONTRACTION JOINTS UNLESS OTHERWISE NOTED.

LAYOUT REVISIONS ANTICIPATED PENDING CTDOT REVIEW OF EGRESS STUDY

FINAL PLANS FOR REVIEW

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2 STAMFORD

PROJECT NO.

135-301

DRAWING NO.

RW-01

RETAINING WALL 105 SHEET NO.
PLAN AND ELEVATION - 1 01.06.001

- | -

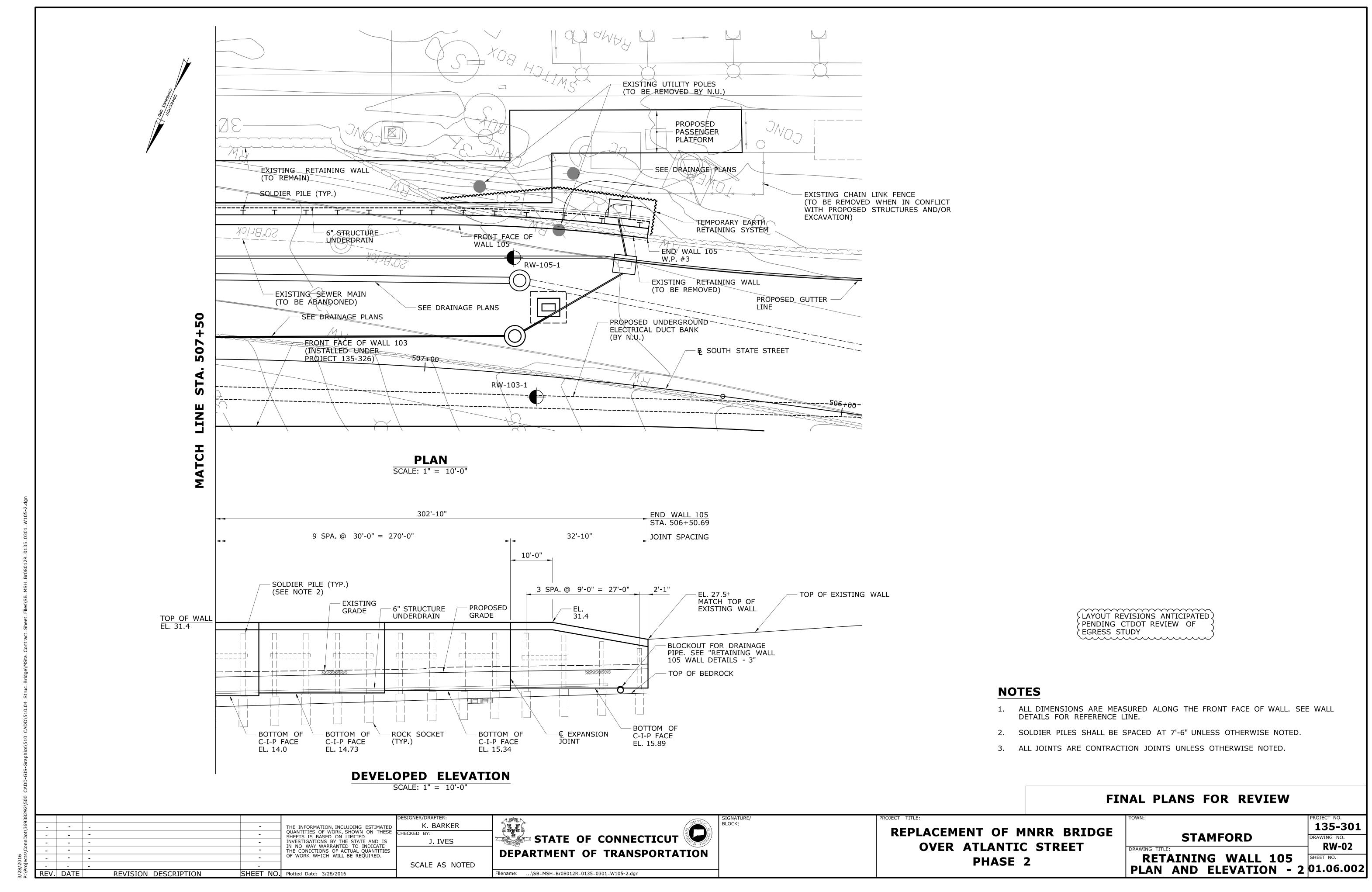
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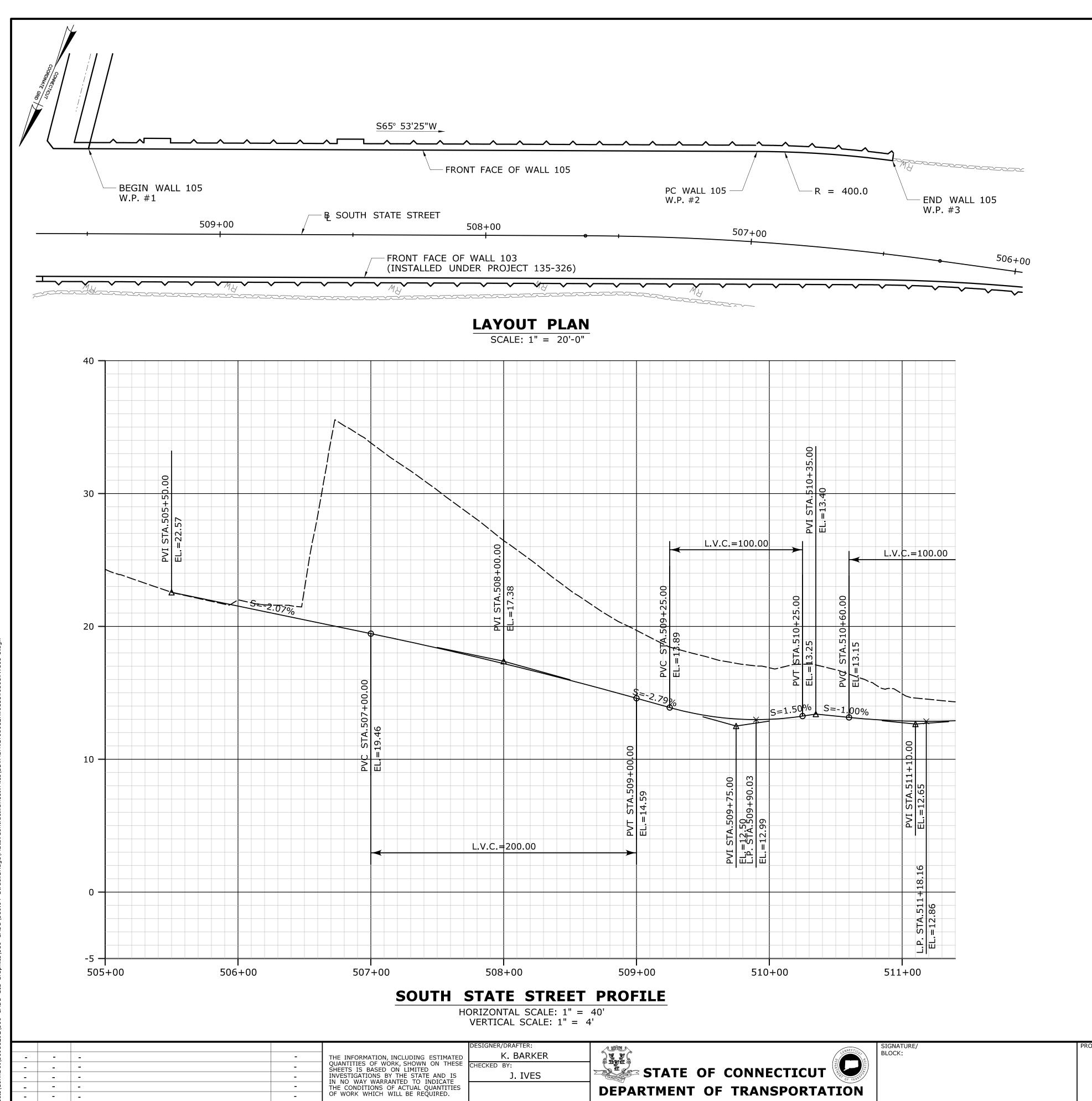
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REV. DATE





SCALE AS NOTED

Filename: ...\SB_MSH_Br08012R_0135_0301_W105-3.dgn

NOTES

- 1. ALL WALL GEOMETRY MEASURED ALONG FRONT FACE OF WALL. SEE WALL DETAILS.
- 2. SEE ROADWAY PLANS FOR BASELINE GEOMETRY.

WORKING POINT COORDINATES			
WP #	NORTHING	EASTING	
1	579192.51	782224.18	
2	579089.71	781994.47	
3	579071.86	781946.61	

RETAINING WALL NO. 105 QUA	ANTITI	ES
DESCRIPTION	UNIT	QTY
STRUCTURE EXCAVATION-EARTH (COMPLETE)	CY	600
PERVIOUS STRUCTURE BACKFILL	CY	2,035
GROUND ANCHOR	EA	38
PERFORMANCE TEST FOR GROUND ANCHOR	EA	7
PROOF TEST FOR GROUND ANCHOR	EA	31
WELDED STUDS	EA	1,370
CLASS "A" CONCRETE	CY	500
SIMULATED STONE MASONRY	SY	590
CLASS "F" CONCRETE	CY	120
1/2" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	SF	670
DEFORMED STEEL BARS	LB	86,200
STRUCTURAL STEEL (LOW ALLOY)	CWT	240
FURNISHING DRILLED SHAFT DRILLING EQUIPMENT	LS	*
DRILLED SHAFT (2.0' DIAMETER)	LF	800
DRILLED SHAFT EARTH EXCAVATION (2.0' DIAMETER)	LF	600
DRILLED SHAFT ROCK EXCAVATION (2.0' DIAMETER)	LF	200
PERMANENT CASING (2.0' DIAMETER)	LF	600
FURNISHING STEEL PILES	LB	134,200
TEMPORARY EARTH RETAINING SYSTEM	SF	TBD
EARTH RETAINING SYSTEM LEFT IN PLACE	SF	TBD
6" STRUCTURE UNDERDRAIN	LF	320
6" OUTLET FOR UNDERDRAIN	LF	35
GEOCOMPOSITE SHEET DRAIN	SF	2,215
REMOVAL OF EXISTING MASONRY	CY	TBD

*THE LUMP SUM ITEM "FURNISHING DRILLED SHAFT DRILLING EQUIPMENT" INCLUDES WORK AT BRIDGE 08012R AND WALLS 105, 106 AND 107.

FINAL PLANS FOR REVIEW

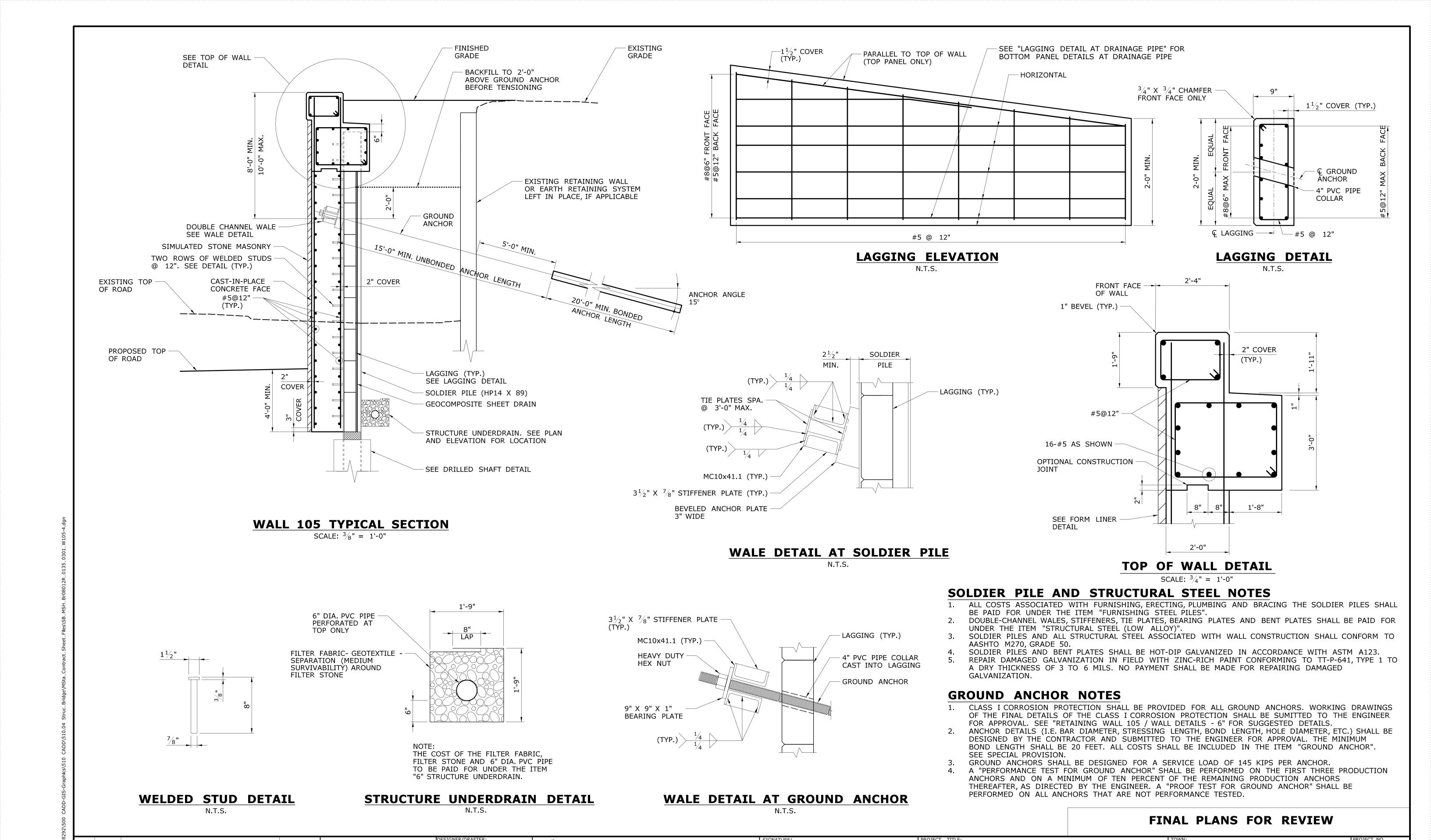
REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

TOWN.	135-301
STAMFORD	DRAWING NO.
DRAWING TITLE:	KW-U3
RETAINING WALL 105	SHEET NO.
LAYOUT PLAN	01.06.003

REV. DATE

REVISION DESCRIPTION

SHEET NO. Plotted Date: 3/28/2016



STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br08012R_0135_0301_W105-4.dgn

K. BARKER

J. IVES

SCALE AS NOTED

THE INFORMATION, INCLUDING ESTIMATED

INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE

THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

SHEET NO. Plotted Date: 3/28/2016

QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED

BLOCK:

REPLACEMENT OF MNRR BRIDGE

OVER ATLANTIC STREET

PHASE 2

135-301

RW-04

01.06.004

SHEET NO.

STAMFORD

RETAINING WALL 105

WALL DETAILS - 1

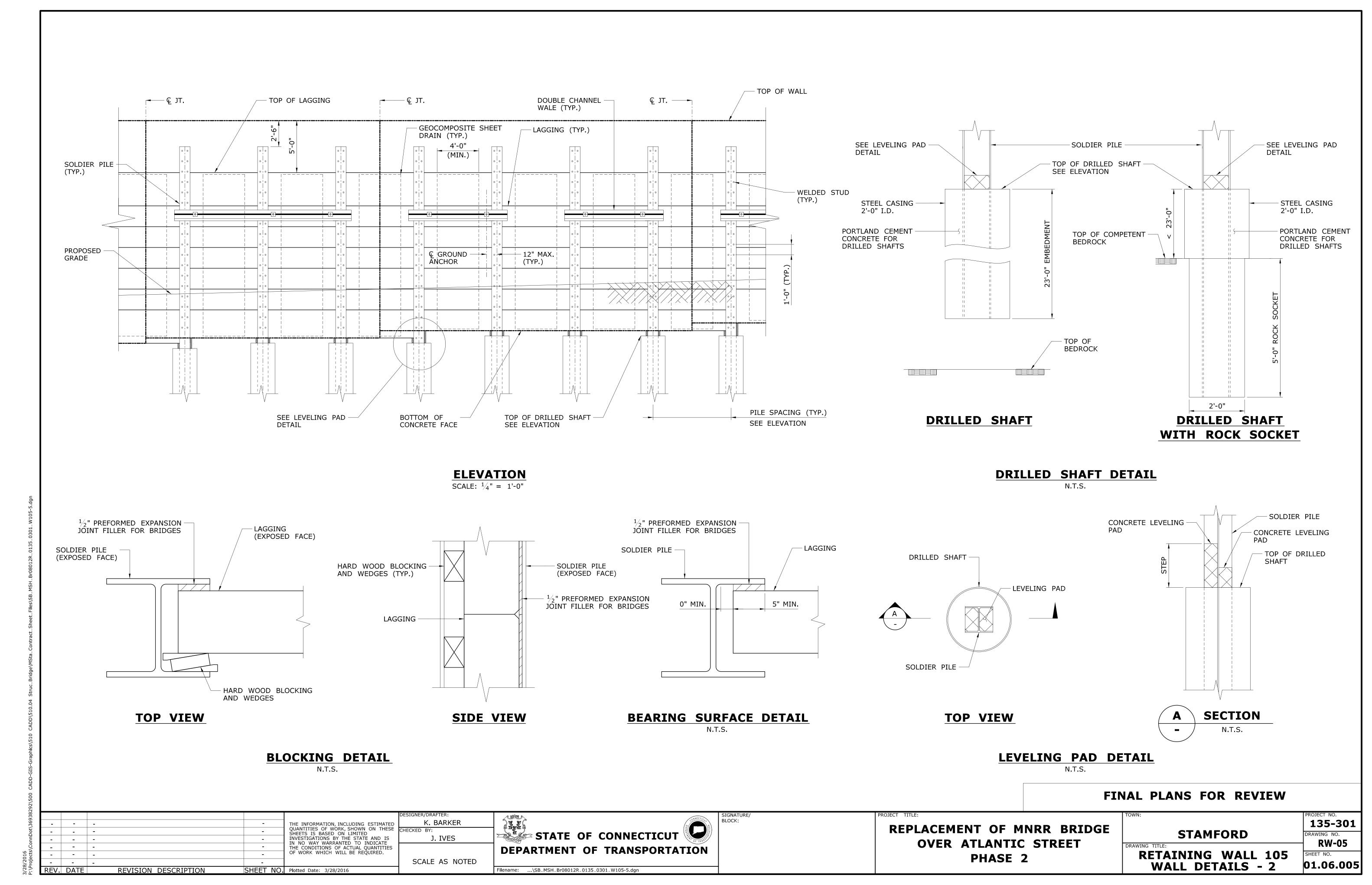
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REV. DATE

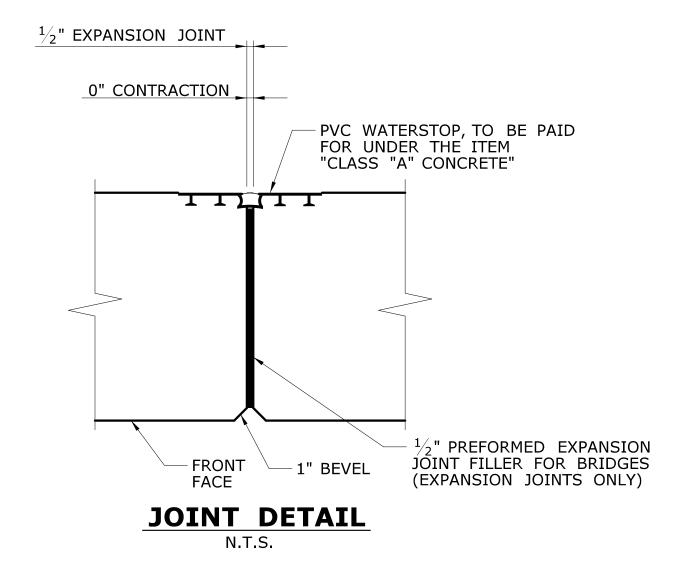
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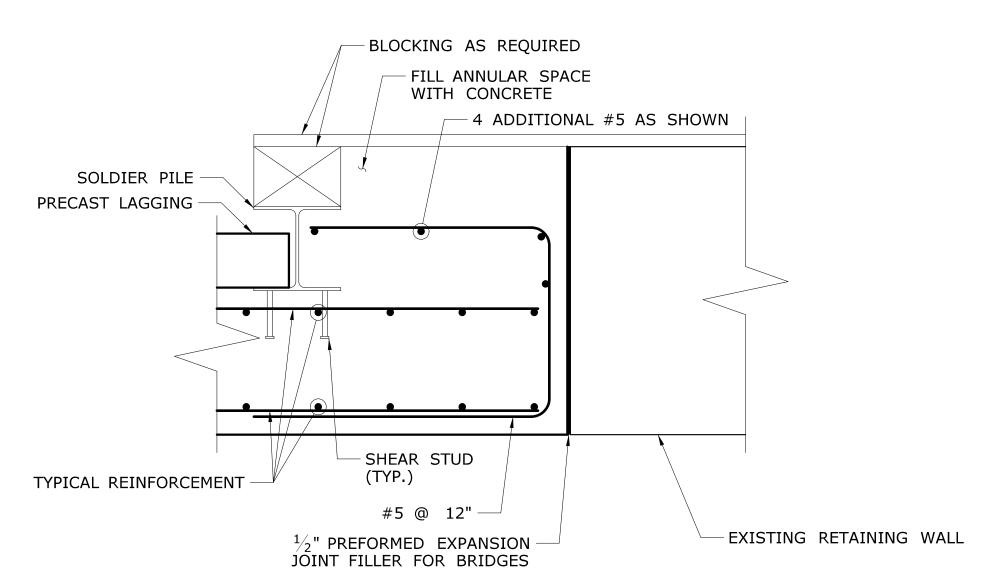
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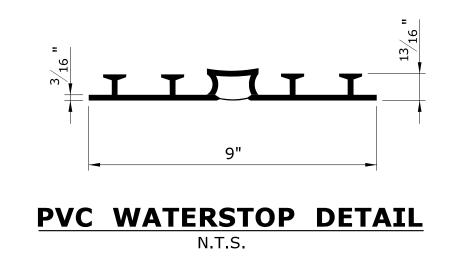


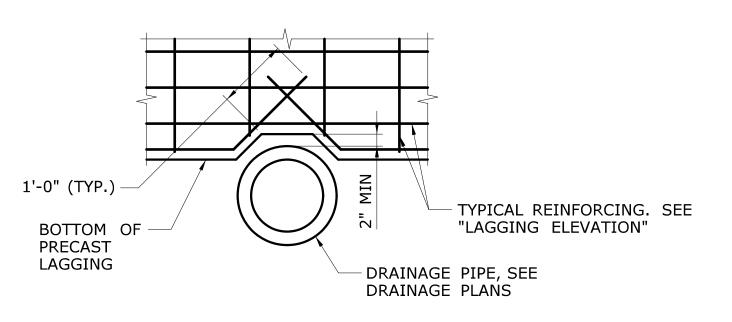
Border Version: 11/14/08





PLAN AT EXISTING WALL SCALE: 3/4" = 1'-0"





LAGGING DETAIL AT DRAINAGE PIPE SCALE: 3/4" = 1'-0"

DESIGNER/DRAFTER:

K. BARKER

CHECKED BY:

J. IVES

STATE OF CONNECTICUT

DESIGNER/DRAFTER:

K. BARKER

CHECKED BY:

J. IVES

STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

SCALE AS NOTED

Filename: ...\SB_MSH_Br08012R_0135_0301_W105-6.dgn

REPLACEMENT OF MNRR BRIDGE
OVER ATLANTIC STREET
PHASE 2

STAMFORD

DRAWING TITLE:

RETAINING WALL 105
WALL DETAILS - 3

FINAL PLANS FOR REVIEW

135-301
DRAWING NO.
RW-06
SHEET NO.
3 01.06.006

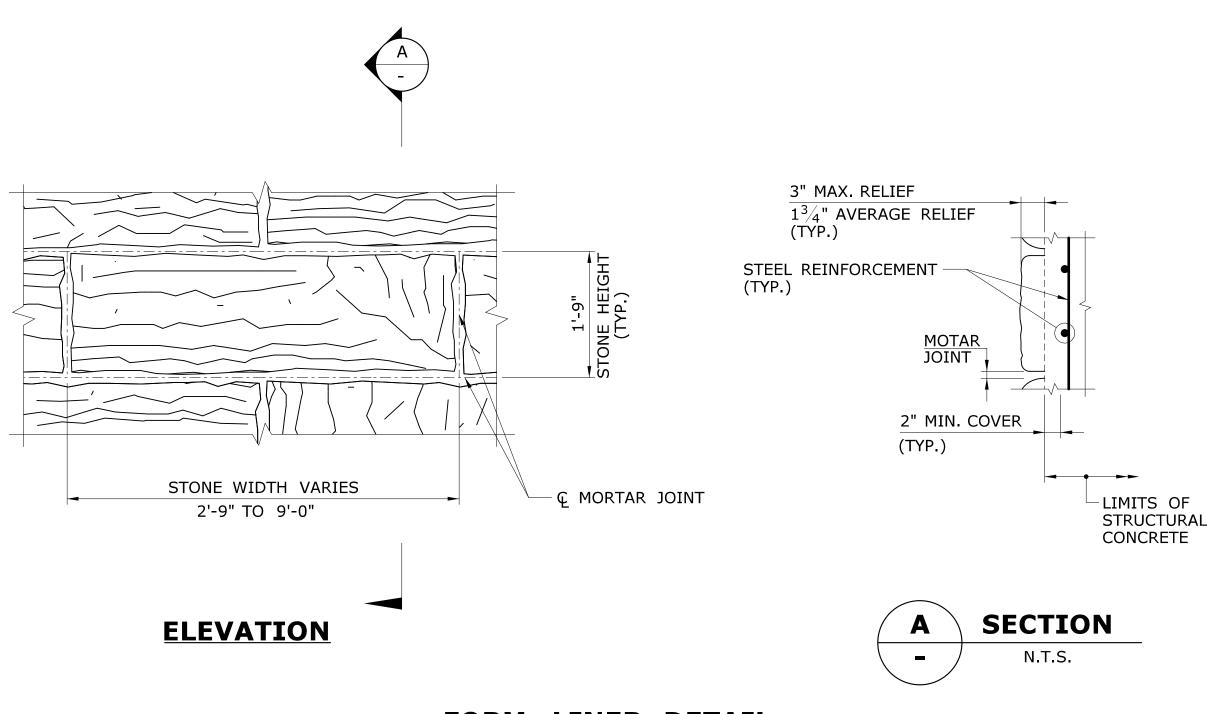
PAY LIMIT DETAIL EXISTING WALL LEFT IN PLACE

PAY LIMIT DETAIL
EXISTING WALL REMOVED

N.T.S.

ARCHITECTURAL NOTES

- 1. REFER TO OTHER STRUCTURE DETAILS FOR REINFORCING, DIMENSIONS. ETC.
- 2. WHERE SHOWN ON THE PLANS, THE CONTRACTOR SHALL UTILIZE CONCRETE FORM LINERS TO SIMULATE STONE MASONRY CONSTRUCTION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR "SIMULATED STONE MASONRY".
- 3. CONCRETE FORM LINERS SHALL CONFORM TO THE REQUIREMENTS OF "SIMULATED STONE MASONRY".
- 4. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL LAYOUT DRAWINGS OF ALL FORM LINERS SHOWING STONE SIZES, STONE CONFIGURATIONS, JOINT SPACING, AND ALL DIMENSIONS REQUIRED.
- 5. IN ADDITION TO THE DETAILS SHOWN ON THESE SHEETS, ALL EXPOSED EDGES SHALL RECEIVE A 1" x 1" BEVEL UNLESS DIMENSIONED OTHERWISE.
- 6. THE ARCHITECTURAL LINERS SHOWN ARE BASED ON FORM LINERS MANUFACTURED BY CUSTOM ROCK FORMLINER. THE STONE PATTERN IS BASED ON CUSTOM ROCK FORMLINER PATTERN NO. 1502, "ARCH STREET BRIDGE LIMESTONE."

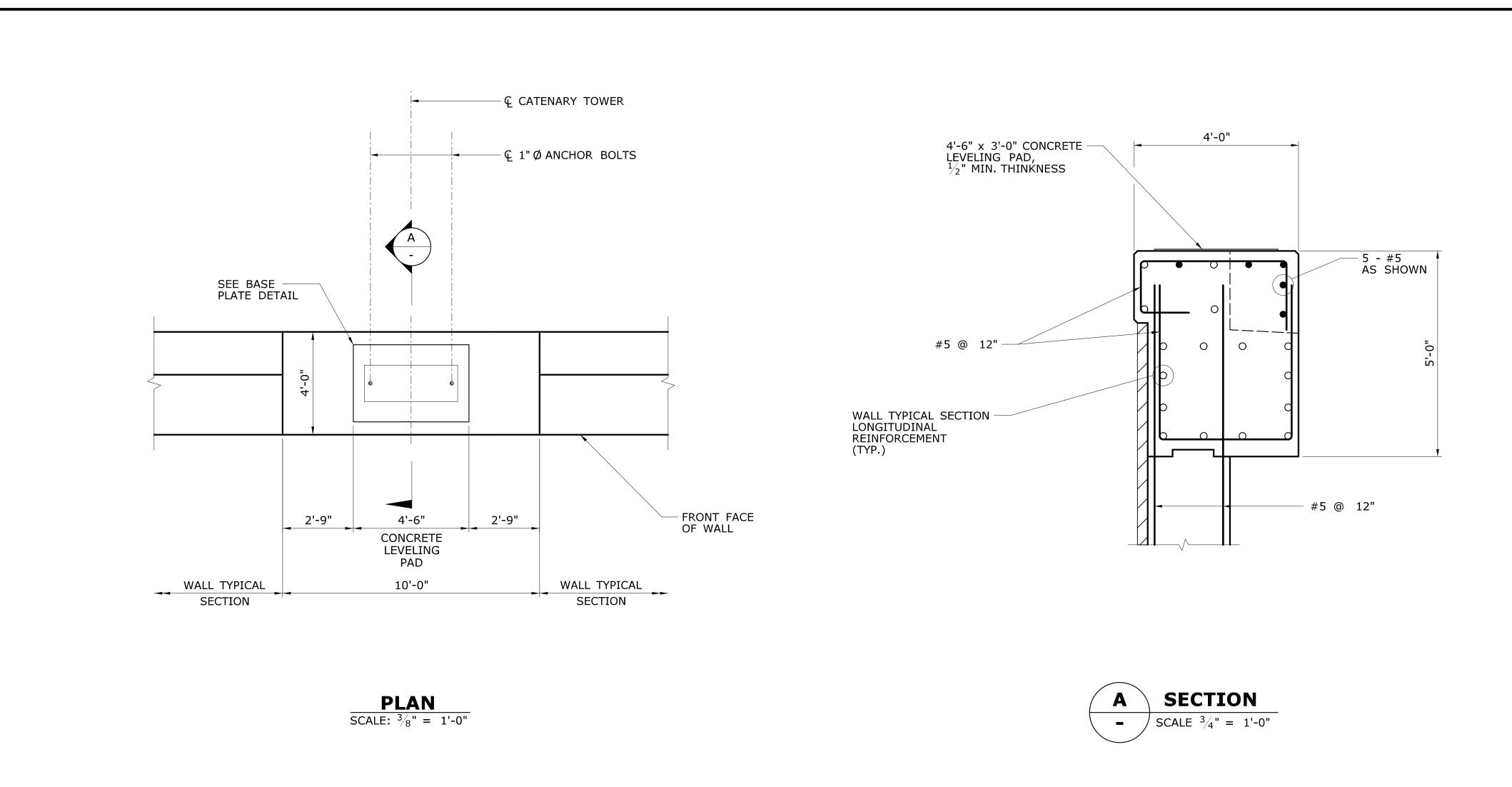


FORM LINER DETAIL

SCALE: N.T.S.

FINAL PLANS FOR REVIEW STATE OF CONNECTICUT BLOCK: 135-301 K. BARKER THE INFORMATION, INCLUDING ESTIMATED REPLACEMENT OF MNRR BRIDGE QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE **STAMFORD** - | - | -J. IVES - | - | -**OVER ATLANTIC STREET RW-07** _ | - | -THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. **DEPARTMENT OF TRANSPORTATION RETAINING WALL 105** PHASE 2 SCALE AS NOTED 01.06.007 **WALL DETAILS - 4** REVISION DESCRIPTION REV. DATE SHEET NO. Plotted Date: 3/28/2016 Filename: ...\SB_MSH_Br08012R_0135_0301_W105-7.dgn

Border Version: 11/14/08



TOP OF WALL DETAIL AT CATENARY TOWER

STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br08012R_0135_0301_W105-8.dgn

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

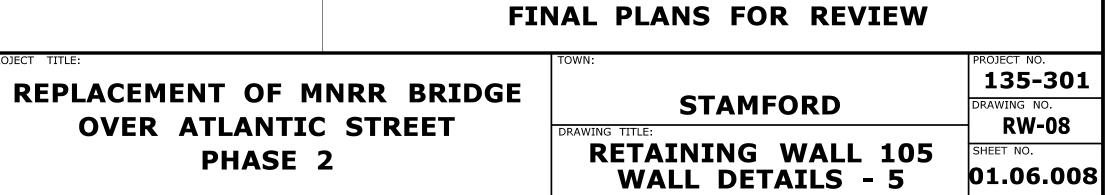
SHEET NO. Plotted Date: 3/28/2016

K. BARKER

J. IVES

SCALE AS NOTED

SIGNATURE/ BLOCK:

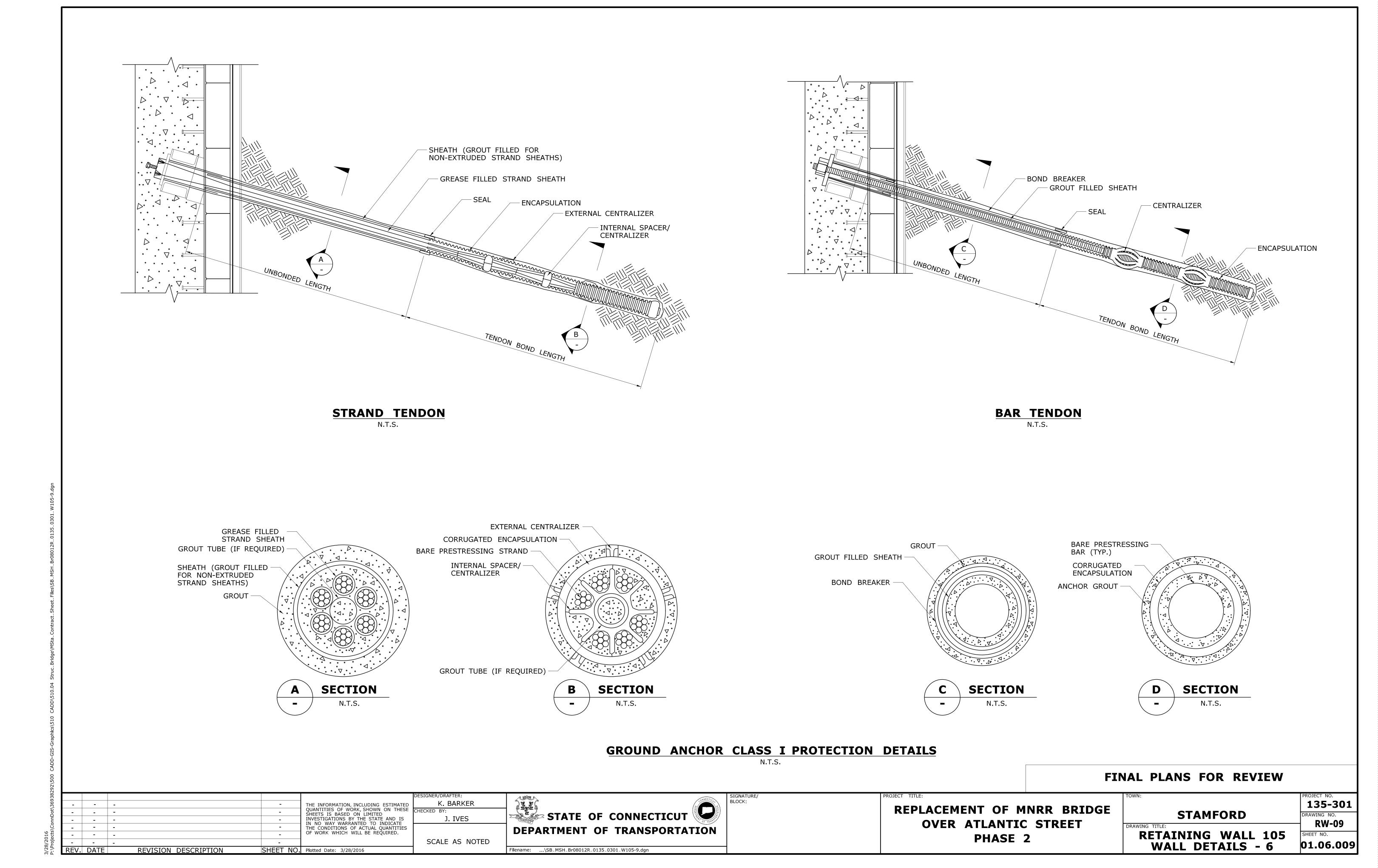


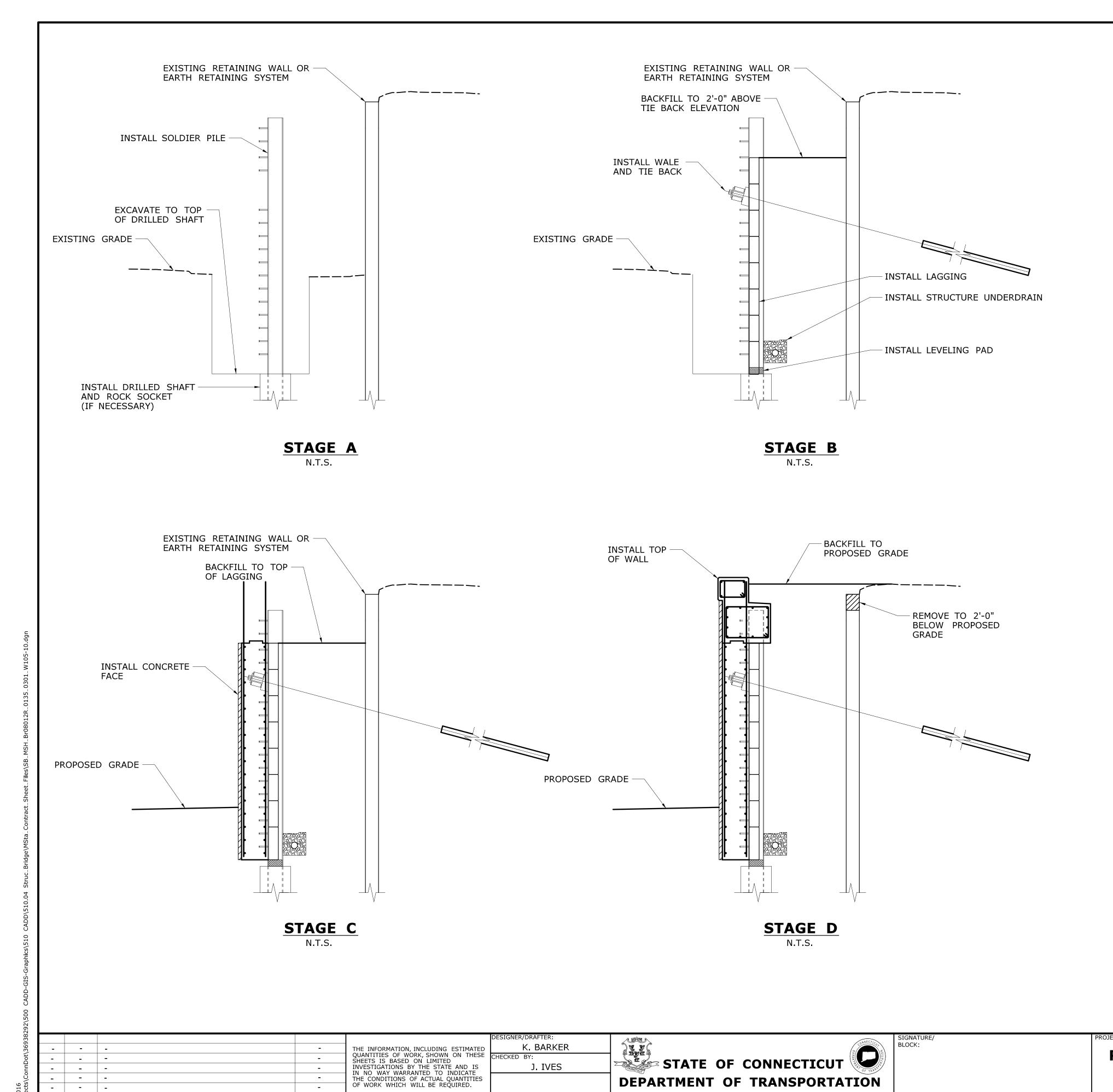
PHASE 2

Border Version: 11/14/08

REV. DATE

REVISION DESCRIPTION





J. IVES

SCALE AS NOTED

DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br08012R_0135_0301_W105-10.dgn

CONSTRUCTION SEQUENCE

STAGE A

1. EXCAVATE TO TOP OF DRILLED SHAFT.

CORE DRILLED SHAFT AND ROCK SOCKET (IF NECESSARY).

INSTALL SOLDIER PILE IN DRILLED SHAFT AND ROCK SOCKET (IF NECESSARY). 4. FILL DRILLED SHAFT AND ROCK SOCKET WITH PORTLAND CEMENT CONCRETE.

STAGE B

1. INSTALL LEVELING PAD, LAGGING AND STRUCTURE UNDERDRAIN AS SHOWN.

BACKFILL TO 2'-0" ABOVE GROUND ANCHOR ELEVATION.

INSTALL WALE AND GROUND ANCHORS 4. TEST GROUND ANCHORS AS REQUIRED.

STAGE C

1. BACKFILL TO TOP OF LAGGING.

2. INSTALL CONCRETE FACE TO CONSTRUCTION JOINT AT TOP OF LAGGING.

STAGE D

1. INSTALL TOP OF WALL.

2. BACKFILL TO PROPOSED GRADE.

FINAL PLANS FOR REVIEW

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

135-301 **STAMFORD** RW-10 **RETAINING WALL 105**

CONSTRUCTION SEQUENCE 01.06.010

REVISION DESCRIPTION

SHEET NO. Plotted Date: 3/28/2016